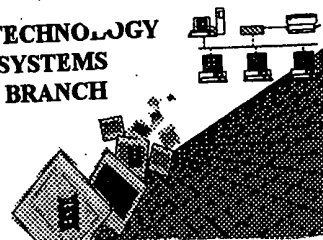


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/069,723
Source: PCT10
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PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/069,723

DATE: 11/19/2002

TIME: 16:55:00

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9 <130> FILE REFERENCE: 72613
11 <140> CURRENT APPLICATION NUMBER: US 10/069,723
12 <141> CURRENT FILING DATE: 2000-08-31
14 <150> PRIOR APPLICATION NUMBER: PCT/JP00/05930
15 <151> PRIOR FILING DATE: 2000-08-31
17 <150> PRIOR APPLICATION NUMBER: JP 11/245962
18 <151> PRIOR FILING DATE: 1999-08-31
20 <150> PRIOR APPLICATION NUMBER: JP 12/136266
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23 <160> NUMBER OF SEQ ID NOS: 88
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ERRORED SEQUENCES

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- See p. 7
for explanation
of errors

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2506	gagccactgt	gccctgccct	ggggaatcga	tgttttaaac	tattgacaaa	gcctaattgt	9240
2507	caagggaagg	gactgagaag	gggattggaa	atgctgtttc	ctgaaagctg	tgtttattga	9300
2508	gaaatagtcc	cagtagctgg	agtgaattca	aagaagtatt	tttatatgtg	gacttgacct	9360
2509	ttggtctttt	attctcattt	tccacttaag	aaaatcttgg	ctgtgtgaat	gaaagagtga	9420
2510	tacttttaag	gttatagaaa	gtgaaatgta	atcatgccag	ataattttat	atagatattt	9480
2511	ttatgtatgg	ctgacctgga	tgactctaac	agtgcattgt	tttgtgagtg	tgtgtgtgtg	9540
2512	catgtgcgtg	tatttaatga	gaaaagtaaa	cttgtgtata	ggaggcttaa	aaaatgtgta	9600
2513	gggaatttta	ggtgactgtt	ctgattccag	acacttttat	tatggaagca	atcaagtaag	9660
2514	tataggaaga	aatattaata	aaaggttatt	tatttctcct	tttactcttt	acagcccga	9720
2515	gatccctgtt	ttgcatctca	aaaccgtgtg	tacaatgaca	ttggcaagga	aatgctctta	9780
2516	cacgcctttg	agggatataa	tgtctgtatt	tttgccctatg	ggcagactgg	tgctggaaaa	9840
2517	tcttatataa	tgatgggtaa	acaagaagaa	agccaggctg	gcattcattcc	acaggtgaaa	9900
2518	aacaaaacaa	aacaaaaatc	ttctcttcat	tattagtgtt	agtcttaaat	tgctttaaca	9960
2519	gttattttta	tttgccgaac	atttatgcgg	ggattgtttt	atgtcaggca	caaagatgaa	10020
2520	caaccattta	ttttccctca	gaggagctca	caattgaatg	ggaaggattg	acatgtacac	10080

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2521	atgtctgtca	ttaaagggtg	gaaagtcagt	gttttgaat	gattttgcc	tatatccaat	10140
2522	gccatattat	tttgtcattt	gaaaagtggt	accagcttgt	taaagctctg	ttctaagtcc	10200
2523	tggagatggg	gggatattgt	tgatctgatt	ttttttcaaa	ttccatgcat	agattacctc	10260
2524	tgaagaatgt	gattatTTTT	ggtttttttg	atagccttat	tcggagatac	tttcatttta	10320
2525	ttttccta	tttaactat	gactttaaac	ttcaa	actgagattct	ccctcttttt	10380
2526	tttttttttt	agaacagtta	gtattattgg	gtttgatcct	ttattgtttg	ggaatgaaga	10440
2527	agcgttctga	catagatatt	tattttattt	tattttcatt	attcgtttca	cttaggattt	10500
2528	aatggtgaaa	gacataagta	tttaaaaaga	acttcattat	ttacttattt	atttgagaca	10560
2529	gggtctcact	ctgttgccca	tgctggagtg	cagtgggtg	atcttggtc	actgaggcct	10620
2530	tgctctccca	ggctcaagtg	atcctcctgc	cttagcctcc	agagtagctg	ggactaaagc	10680
2531	catgtgccac	cacacctagc	tcatttttta	attaaaaaaa	aaaaaaattt	tttttttttt	10740
2532	ttgagggtga	gtctctctct	gttgcccagg	ctggagtga	atggcgccat	cttggtctac	10800
2533	tgcaacctcc	gcctcctggg	ttcaagtgat	tctcctgcct	cagcctccca	agtagctggg	10860
2534	acaataggca	cccaccacta	tgcttggtga	atttttgtat	ttttagtaga	ggcgggggtt	10920
2535	caccatgttg	gtcctggtct	ggatctcctg	acctcaggca	atccgcccac	ctccgcctcc	10980
2536	caaagtgcag	ggattgcagg	catgagtcac	catgcccggc	ctttaaaatt	tttttttttag	11040
2537	agacagggtc	tcacatgtt	gtccaggctg	gtctcgaatg	gacctgggct	ccatcctggg	11100
2538	cttgggatga	tctgcctgcc	tcgacttcca	gaagtactgg	gattacaggc	atgagccact	11160
2539	gtgcggggcc	taaaaactta	agaaaaaaa	aagattaagt	gagaagattg	tatttaaaat	11220
2540	tttcctttta	tagtcatgca	tcacttaagg	gtgggggtac	attttgagaa	atgcatcatt	11280
2541	agtcgttagg	tgcttttgtc	attgtacaga	tatcatagag	tgtacttaca	caaaccttgg	11340
2542	aagggtgtaa	ctgctccaca	cctagactgc	gttgatatagc	ctgttgctcc	aaggctataa	11400
2543	acttgtgtag	catgctactg	tactgaatac	tacaggcaat	tataatagga	tggttaagtat	11460
2544	ttgtatatct	aaacatagaa	aagtacatta	aaaatatgat	ataaaagatt	tgaaatggca	11520
2545	cacctgcata	gtgctcttac	actggagctt	gcagggtctg	aagttgctct	gggtgagtca	11580
2546	gtgagcaagt	ggtgagtaaa	tgtgaaggcc	taggacattg	ctttgcagta	ttgtagactt	11640
2547	tataaatgct	gcacacttag	gctacactaa	atttagtttt	aaaaacagtt	tcctttcaat	11700
2548	aattaacctt	agttaaatta	ctataacttt	tttactttat	aaactttaaa	attttttaaa	11760
2549	ctttctgatc	ctttttataat	aacctttagt	ttaaaacaca	aacagcccca	gcatggtggc	11820
2550	tcatgcctgt	aatcccatca	ctttgggagg	ccaaggcg	tggtactctg	gaggtcagga	11880
2551	gttcgagacc	agcctgacca	acatggtgaa	accccggtgc	tactaaaaat	acaaaaaaat	11940
2552	gagccaggca	tggtggcgca	tgctgtaat	cccagctact	tgggaggctg	aggcaggaga	12000
2553	attgcttgaa	cccaggagac	ggaggttgca	gtgagctgag	atcgcgccat	tgactcttag	12060
2554	catgagcaac	aagagtga	ctcggtctca	aaaaaaaaa	aaagaaacca	cacacacact	12120
2555	ttgtacagct	gtacaaaaat	attttctttc	ttcatatctt	tattctataa	gcttttttgt	12180
2556	attttttta	tttttttttc	tttcttgaga	cagagtcttg	ctttgtcacc	caggctggag	12240
2557	tacagtggcg	ccctatcagc	tcactgcaac	ctccgcctcc	tgggttcaat	taattcttgt	12300
2558	gccttagcct	cctgagtagc	tgggactaca	ggcacgtacc	accacgtctg	gctaattttt	12360
2559	gtattttttag	tagagacggg	gtttcacaa	gttggccagg	ctggtcttga	actcctggcc	12420
2560	tcaagtgatc	tgcttgctt	ggcctcccaa	agtgtctgaga	tttacaggcg	tgagccactg	12480
2561	cacctggcca	aatttttttt	tttttttttt	agacagagtt	tcactcctct	tgcccaggct	12540
2562	ggaatgcagt	ggcacgatct	tggctcactg	caacctccgc	ctcctgggtt	caagcgattc	12600
2563	tcctgcctca	gcctccagaa	tagctgggac	tatttttcta	tttttagtag	agatgggggt	12660
2564	tcacatgtt	ggccaagatg	ttctcgatct	cctgaccttg	tgatctgcct	gcctcgtcct	12720
2565	cccaaagtgc	tgggattaca	ggcatgagcc	accttgccca	gccccaaatt	tttaatttttg	12780
2566	aaaaaaaaatt	taaacttttt	tgttaaaaac	ttaggcacac	atttatttagc	ctaggcctac	12840
2567	acagggtcag	gatcatcaag	atatcactag	gtgacaggaa	ttttccagct	ttctttataat	12900
2568	cttatgggga	tcactatcat	atatgcagtc	catcggtgac	cgaatcatgg	ttatgcagcg	12960
2569	catgactgac	tttattcaaa	gcattaatcg	tatcttgatg	tttatgacat	aatatatattt	13020

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2570 gagatggagc aagaaaggac gtctggctaa ttcattgagc acgcgtggat gacttagtac 13080
2571 tcctctcatt tgtgctcttc atgcctctct cattctactt ccctagttag gtgaagaact 13140
2572 ttttgagaaa atcaatgaca actgtaatga agaaatgtct tactctgtag aggtgagtac 13200
2573 agccgtgagt tgacaccgta agcccttggt ttccattctc tcaagcatca cttaaattggc 13260
2574 tccaaattat gactgtggta cacatcactt caccattcct tcatttttgt cttttcaggc 13320
2575 tatttctggg ttttgggtat aatgaatagt gtctgtctt aatctttttt ttgggggggtg 13380
2576 cgcggtgggg acaggggtct actctgttgc ccaggccctg gagtgcagtg gcgtgatcac 13440
2577 agctcactgc agccttgacc ttctgggcca aagcgatctt accccttcag cttctcaagt 13500
2578 agctgggaca acaggtgtgt gccaccacca ccctagata attgattttt ttgtagagat 13560
2579 ggagtttccc tatgttgccc aggttggtgt tgaactcttg ggctcaagca atcttgccctc 13620
2580 ctccacctct gaaagtgtct ggggtgcagt gtgaatcact gagcccagcc acaattaaat 13680
2581 ctttgttcat aagtctgtgc atttatttgc agttattatc ttttgtatgt ttcttggttt 13740
2582 ttaaataata catttgaatt gccaaatgcc tttttggaaa gtaatgctgg gtaacagttt 13800
2583 tcagtcacac taggagggtg taagcaccca ttgtgccctt gccaacattt ttctattttt 13860
2584 taatctttgc taatttgata atgtaagtat tctcttactt aaattttgaa tttctttgat 13920
2585 tactagt 13927

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6306 <210> SEQ ID NO: 83

6307 <211> LENGTH: 614

6308 <212> TYPE: DNA

6309 <213> ORGANISM: HOMO SAPIENS

6311 <400> SEQUENCE: 83

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6312 gtaaagatgg gggtagagaa aacaattaaa tagaacaata acaactgttt ctttttctctg 60
6313 tgattcaaga agggcttaga tcttctactc agcatccttt tactaatgcc ctccattggc 120
6314 tctcacccca acatttcctt ttttatagct tattttgtaa tgcctcctta attatccttt 180
6315 aatagaagcc accgctgata agctacctac actcatacag aagcattaat ataatgcccc 240
6316 agatgtactg tttcaggggc aaaaaggaaa ataatttcca acaaagtggg gtgtgtttca 300
E--> 6317 ctgtcagatg cttgcactta cacacngaag cgctgggcat ccgacagagg ctgattggca 360
E--> 6318 catgggggca cgggggattg gncagctnaa accccggncn gcagcgggtg cccctttggg 420
E--> 6319 aaaatgggga ttttcccaaa aacaagtaaa accggggtnt ggtccttgga ttttaccaga 480
E--> 6320 gtangctacc atttcctagc tttgggatnc ccgnccatna aggggccaat ttcacttggg 540
E--> 6321 ccggtcggtt tnaccaacgn tcgtgactgg ggnaaaancc cttggcggtt acccccaact 600
E--> 6322 tnaatnngct ttgg 614

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VARIABLE LOCATION SUMMARY

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Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:54; N Pos. 117,205,236,271

Seq#:55; N Pos. 1,122,424

Seq#:56; N Pos. 336,346,360,366

Seq#:59; N Pos. 443

Seq#:67; N Pos. 8366,8409,8443,8445,8476,8478,8482

Seq#:83; N Pos. 326,382,388,398,400,459,484,509,514,519,552,560,573,578,602

Seq#:83; N Pos. 606,608

VERIFICATION SUMMARY

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Input Set : A:\72613.txt

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L:930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:60
L:932 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:180
L:933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:240
L:947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120
L:954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:420
L:972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:300
L:973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:360
L:1032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:420
L:2492 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:67
M:340 Repeated in SeqNo=67
L:6317 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:83
M:340 Repeated in SeqNo=83